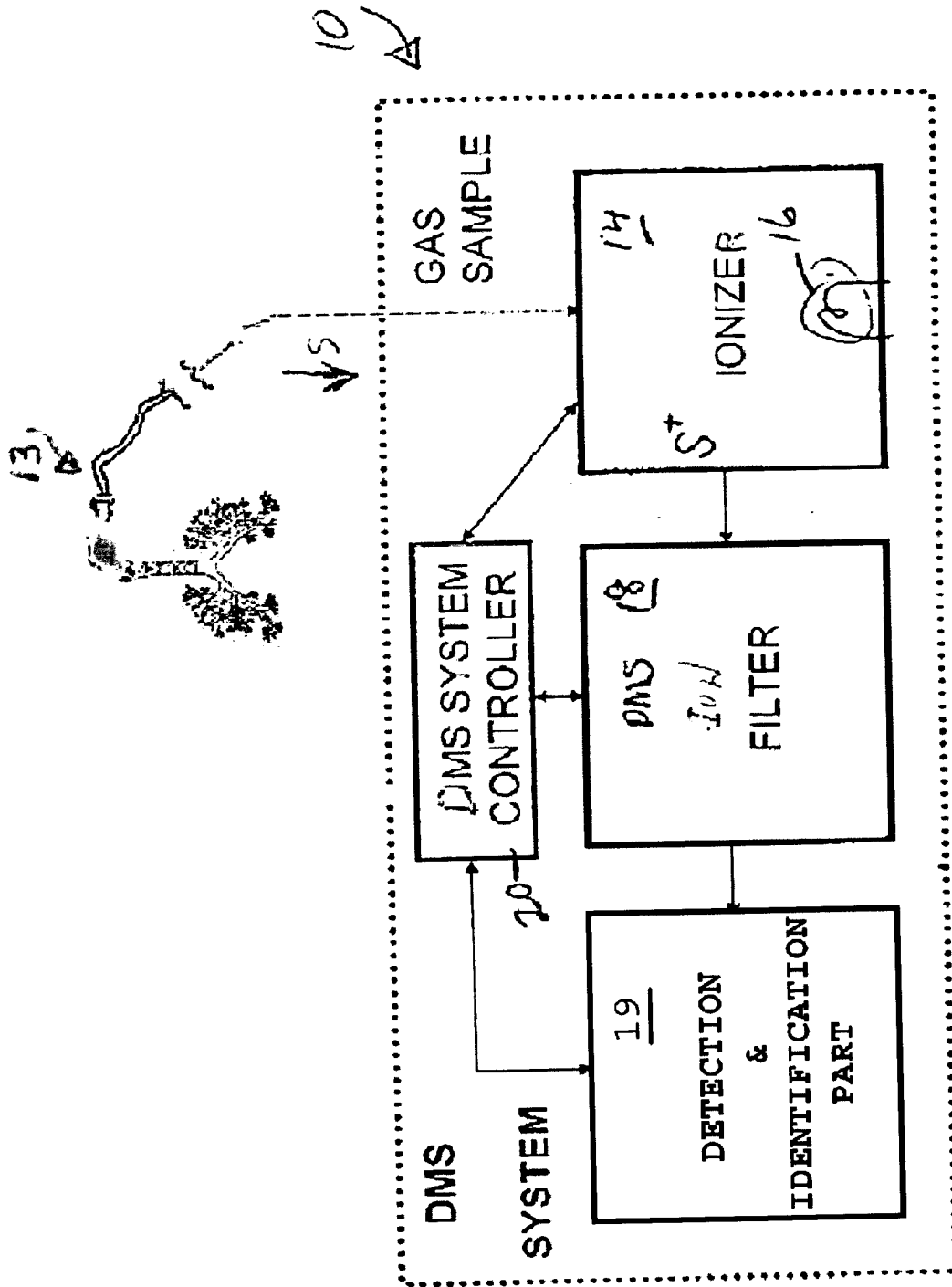
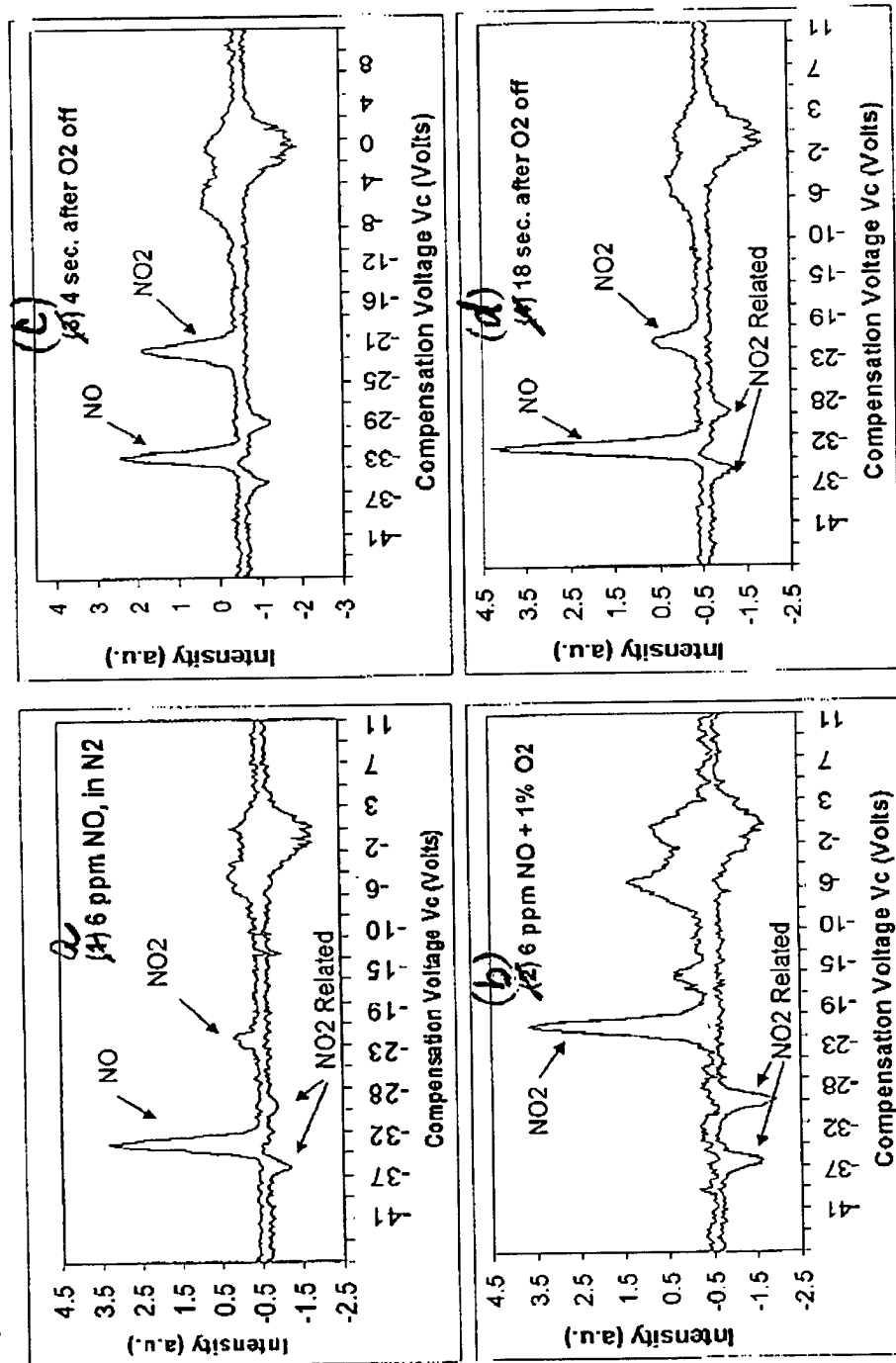


FIGURE 1B



NO and NO2 Detection



SIONEX CONFIDENTIAL

Figure 2

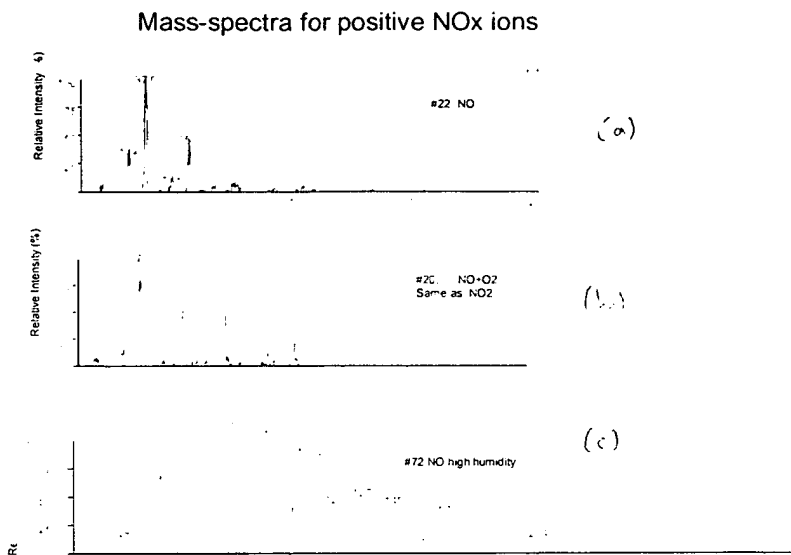


Figure 11

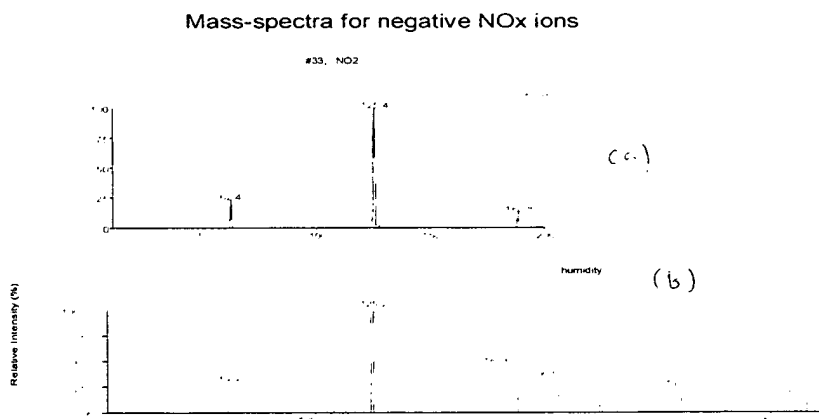


Figure 12

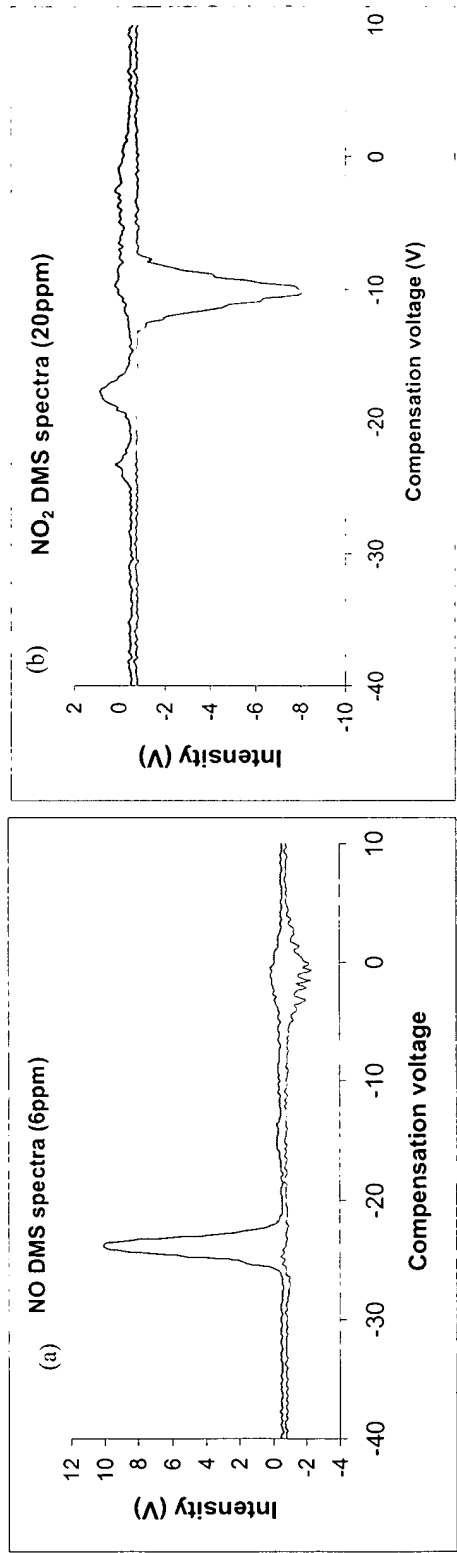


Figure 3

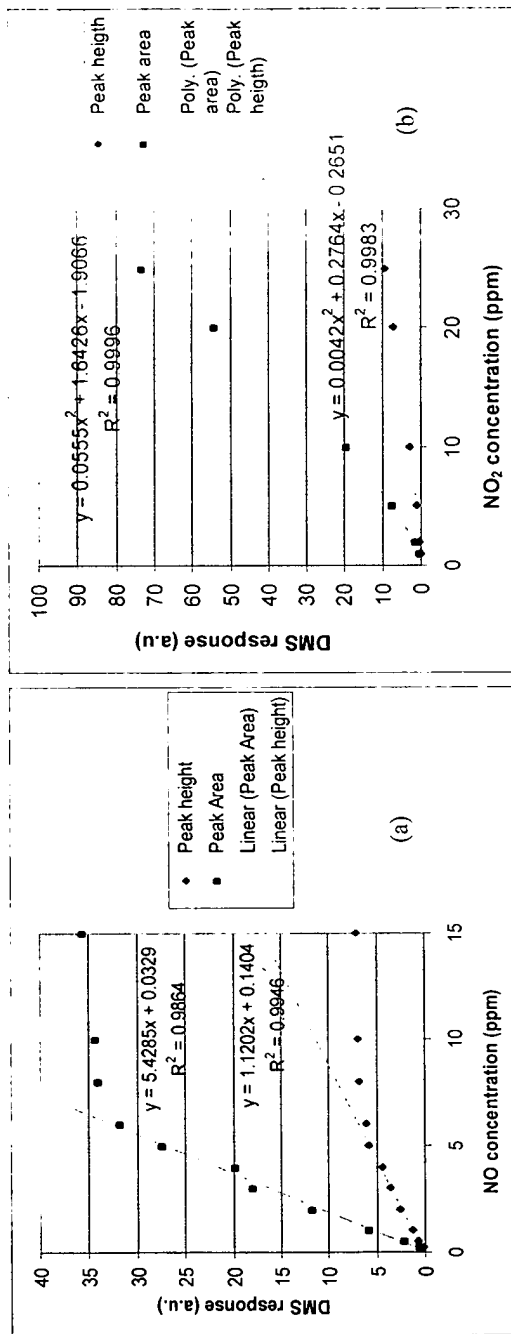


Figure 4

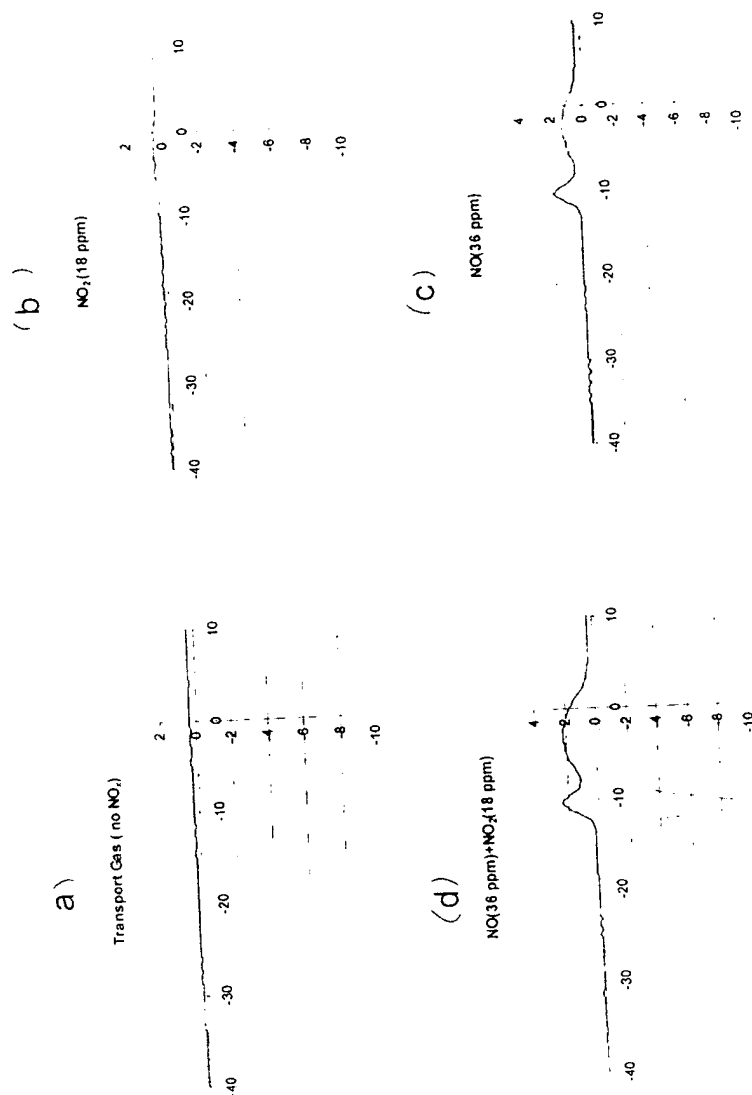


Figure 5

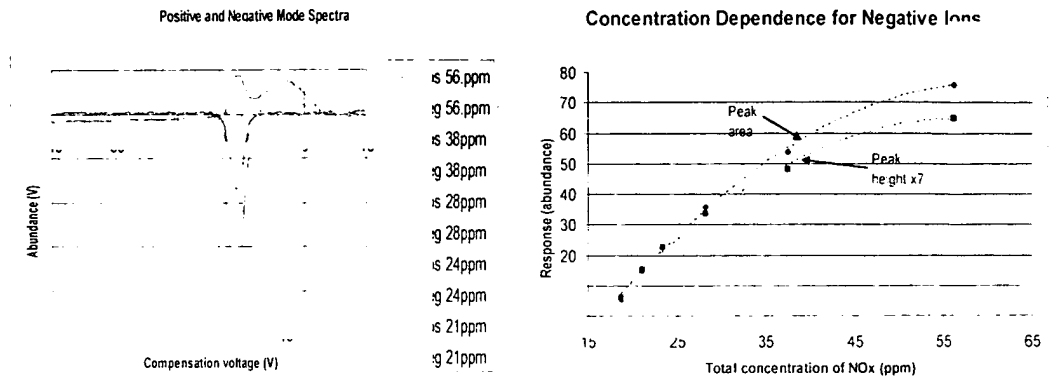
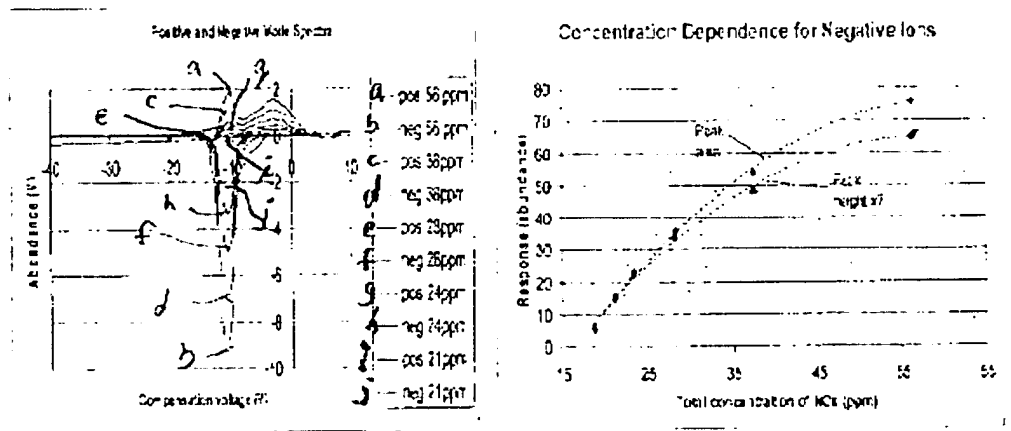


Figure 6



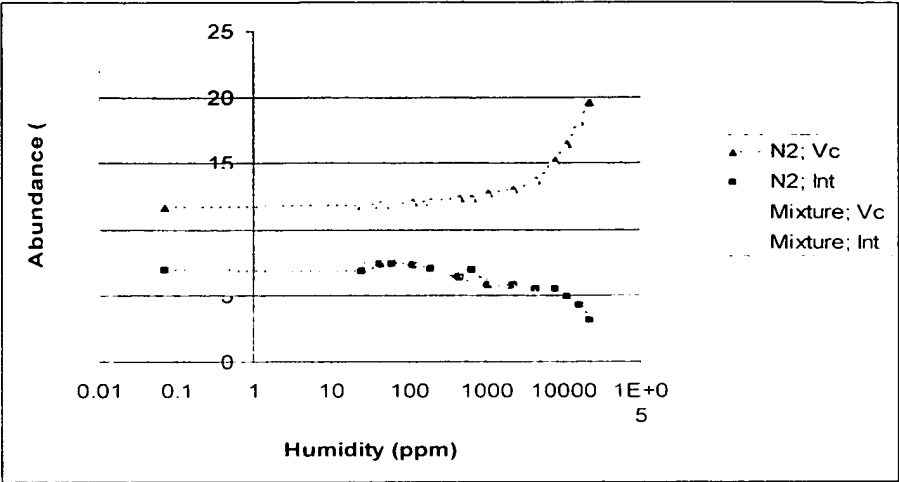


Figure 7

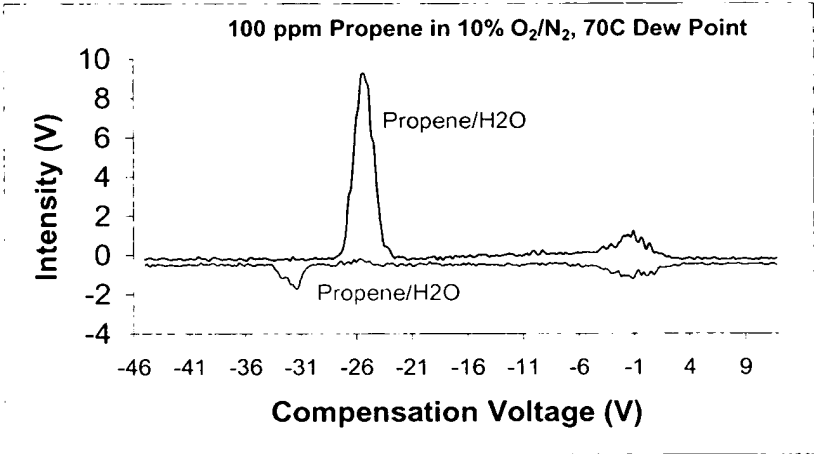


Figure 8

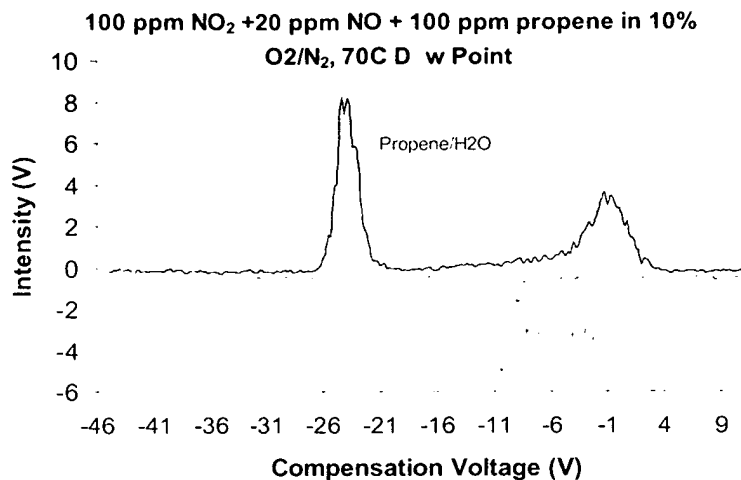


Figure 9

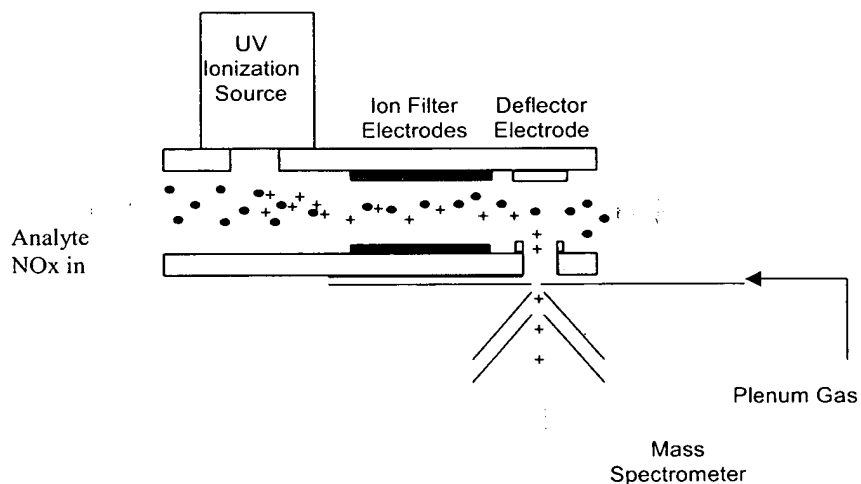


Figure 10

426588-1

	Total amount	El eV	EA eV	PA KJ/mol	Positive Ions	Negative Ions
Nitric Oxides: NO NO2	200ppm	9.3 9.5	0.026 2.3	531 591	yes yes	no yes
H2O	10%	12.6	-	691	no	no
Oxygen	9%	12.06	0.45	421	no	yes
CO2	5%	13.77	-0.6	540	no	no
Hydrocarbons: methane propane and propene	490ppm 625ppm	12.61 10.94 9.73	- - -	543 625 751	no no yes	no no no
CO	300ppm	14.01	1.37	594	no	yes
Hydrogen	150ppm	15.4	-	422	no	no
Ethane	10ppm	11.52	-	596	no	no
Nitrogen	Balance	15.58	-	493	no	no

Figure 13 (Table 1)
 Ionization energies, proton and electron affinities of selected compounds.